

THE TECH

DAILY

VOL. XXIX. NO. 77.

BOSTON, MASS., THURSDAY, JANUARY 6, 1910

PRICE ONE CENT

TECH LOSES TO HARVARD IN HOCKEY

In Fast Game Harvard Scores 4 to 1--O'Brien Shot Only Tech Goal

The Technology hockey team received its first defeat yesterday afternoon at the hands of the Harvard aggregation. The final score was four to one. At one time it looked as if the game would have to be cancelled on account of snow, but the sky cleared up in a short time.

The Technology team played a fairly consistent game and passed well but they were not as fast on their feet as the Harvard men. The game was singularly free from any rough playing and at no time was any player ruled off the ice. The shooting on both sides was poor.

Technology's only score came in the first period. The forwards got going down the ice and the puck was passed to Capt. O'Hearn who scored with a fine shot. Harvard made three tallies in the first half and one in the second. Duncan scored two of these with fast shots, and Wigglesworth and Leslie secured one apiece. The Harvard men frequently tried to take forward passes and several times the puck had to be brought back and faced off. The second half of the game was played much faster than the first, and the Technology men, especially, showed more speed.

Capt. O'Hearn and Billings played good games for Tech, and Wigglesworth and Duncan for Harvard.

The line up was:

Technology.	Harvard.
O'Hearn (Capt.), f	Gardner
Stucklen, f	Duncan
R. Gould, f	Wigglesworth
Sloane, f	Leslie
A. Gould, c p	Foster
Billings, p	Huntington
Hurly (Polhemus), g	Smart

Score—Technology 1, Harvard 4.
Goals—O'Hearn 1, Duncan 2, Leslie 1, Wigglesworth 1. Time of Halves—20 minutes and 15 minutes. Referee—Dr. Goodrich.

WRITE FOR TECHNIQUE

Considerable work has been done for Technique during vacation by the various members of the board. The questions for the statisticians department have been printed and will be distributed to the Junior class to-morrow at the close of the Political Economy lecture.

The Professor's department is nearing completion, and the first installment of copy for the printer will be sent down Jan. 15th.

Very few histories have been handed in, in spite of the easy method of writing that has been started this year. All men who have any idea of writing a history must have a few pages in by next Wednesday at the latest, after which no other work will be considered. No one has handed in anything for 1910, and most of the men who promised to do something to help themselves and Technique, have not been heard from. The history editor is willing to do anything to help or advise the prospective authors.

Pictures of all athletic teams and many individuals are being made at Marceau's and the Senior Class picture will be taken on Roger's steps next Tuesday at one o'clock.

More grinds are needed and art work is always welcomed.

1910 CERTAIN TO BE A PROSPEROUS YEAR

"Business Barometers" Subject Of Interesting Lecture By Mr. Babson

Cheer up, Seniors! All indications point to the fact that the present state of business prosperity will certainly continue throughout the year 1910 at least. What is to become of the men who graduate in the next few succeeding years depends largely on the extent to which prosperity increases during this year. Too large an increase means a much more rapid approach to an inevitable period of depression.

A very interesting lecture on Business Barometers was given before the Civil Engineering Society yesterday afternoon by Mr. Roger W. Babson, '98.

Although a graduate of the Course in Civil Engineering, Mr. Babson has been engaged since leaving the Institute in statistical work. There are two distinct classes of statistics. Comparative statistics deal merely with superficial past conditions and would furnish an excellent means of guiding present business operations were market conditions to remain stable. Such statistics determine simply actual values, and indicate principally a choice between two or more possible investments. Market conditions so seldom remain stable for any length of time, however, that a more detailed study of underlying principles is necessary.

Fundamental statistics deal with fundamental conditions and in that they may be and are used to forecast future business activity, they are "Business Barometers."

A study of financial history from very early times shows that there always have been alternate periods of depression and prosperity. These, more or less regularly recurring cycles each consist of four periods: a depression, an improvement, prosperity and a decline leading to another depression. The duration of the main or major cycles is about 20 years, of the minor cycles 10 years, and of the intermediate cycles, which are, of course, small cycles within the large ones, about 5 years although often much less.

In compiling the reports which Mr. Babson issues, statistics are gathered on about twenty-five different subjects, including new building operations, bank clearances, business failures, labor, money and trade conditions, gold movements, production of gold, commodity prices, condition of crops, investment market, railroad earnings, social conditions, etc., all of which seriously affect business operations. These statistics are tabulated, combined, and reduced to a single plot, which resembles in general form a sine curve.

Mr. Babson is of the opinion that sooner or later someone is going to reorganize the course of the present Course IX at the Institute and substitute a live course which will teach men to be "Engineers in Financial Conditions." One of the greatest needs of modern business life is men who can interpret the statistics collected to cover the conditions in widely different business operations.

Copies of the reports which Mr. Babson issues are through his courtesy to be installed in the Civil Engineering Library, where all may have access to them.

Dr. Frederick A. Cook's original notebooks have arrived at Copenhagen, and will be examined immediately by the committee. Rector Solomonson says, however, that the investigation will not alter the committee's judgment.

SCHOLASTIC HONORS NEARLY UNIVERSAL

Honors Given At Nearly All Colleges and Scientific Schools

A short time before Christmas, the Tech published an article on the Sigma Xi honorary fraternity, the discussion of which was started by Dean Burton's report to the President recommending that an honorary fraternity be established here. Since that time the Tech has sent a reporter to see what other colleges are doing about honors in scholarship.

Nearly every university, college, and technical school of importance offers some tangible reward for exceptional work in scholastic lines. At different colleges different systems are in force, and at some several different systems are employed simultaneously. Honorary fraternities also are frequent, particularly in the West and Middle West.

At Harvard, for instance, there is a most elaborate system of prizes and honors. There are a large number of prizes, many of money, offered to those of especial ability in a certain subject. The winner is decided by competition. Honor lists are printed in the catalogue each year of the students who have done creditable work in each course. The marks A and B are honor marks. Degrees are given "cum laude" (with honor) "magna cum laude" (with great honor) and "summa cum laude" (with highest honor).

Moreover, special honorary parts in the commencement exercises, as valedictorian and salutatorian are given to the students of highest rank in the class. Phi Beta Kappa, an honorary academic fraternity, has a chapter there, admission to which depends on excellence of general standing, and only a limited number are admitted.

There is hardly any college that does not have some of these honors or their equivalent. Princeton, for example, gives general and special prizes. General prizes for excellence in general scholarship, and special prizes for exceptional work in one course. The University of Maine, following the English custom, has honor courses, which are harder than the common courses, and the successful completion of which is an honor. In addition they give commencement honors and honors for general excellence in scholarship. Nearly all of the colleges print honor lists. This is the custom at Yale, Williams, Wesleyan, Tufts, Amherst, Brown and many others.

Nor are technical and scientific schools behind in this respect. The Alabama Polytechnic Institute and the Rose Polytechnic Institute print honor lists in the catalogue, in addition to which Rose Polytechnic offers medals. The Polytechnic Institute of Brooklyn makes honorable mention of those who have done exceptional work, and offers prizes, and special honors for excellence in one subject. This list of colleges is not meant to be complete, merely representative.

Concerning honorary fraternities, there are two especially which are for engineering and scientific students, Tau Beta Pi and Sigma Xi. The aims of these two fraternities are somewhat different, but admission to each depends on general excellence of scholarship. Tau Beta Pi, of which Prof. Moore is the president, aims to broaden out the engineer and cultivate the literary as well as the scientific side. It was founded at Lehigh in 1885 and has about twenty-two chapters at different

LOSS OF WENTWORTH HANDICAPS TECH FIVE

Tufts Easily Defeats M. I. T. In Basket-Ball--Second Team Wins

In a game full of excitement and rough playing from the start the veteran Tufts team defeated the Technology team at Medford last night. The final score was nineteen to eight in favor of Tufts. During the entire game the Tufts men showed the better teamwork and excelled in passing and shooting. The Tech men played a rough game but this did not seem to give them the advantage. They were crippled by the absence of P. M. Wentworth, who is probably the best player on the team. Avery who took his place at short notice was unable to play fast enough to make up for this loss, although he played a consistent game. There was a large crowd present who cheered every good play.

Tech started off with a rush and the first few minutes of the game were played with top speed with the ball flying back and forth from one end of the gym to the other. The first score came when Capt. Parker shot a beautiful goal on a free try after a Medford man's foul. The only other Technology score in the first half was a field goal by Hargraves. Tufts secured nine points in the first half—six by field goals and three by free tries.

In the second half Johnston shot two goals after some good passing by the Tech forwards. Tufts, however, played steadily and succeeded in rolling up ten points. There was much rough work in this half, Bennis being responsible for a good deal of it, and numerous fouls were called—eight of them on Tech men. Parker was the whole team for Technology while Kimball and Atwood excelled for Tufts. The line up was:

TECH.	TUFTS.
Hargraves (Darling) r.f.	Knight (Dickinson)
	Kimball
	Atwood (Fisher)
	Bennis (Ell.) r.g.
	Wallace
	Avery (Crocker), l.g.
	Hatch (Capt.)

Score—Technology 8, Tufts 19. Referee—F. Ingalls of Brown. Goals by Knight 2, Hargraves 1, Atwood 3, Johnston 2, Dickinson 1. Fouls shot by—Parker 2, Kimball 7. Fouls called on—Wallace, Hargraves 3, Avery 3, Bennis 2, Kimball 2, Hatch, Darling, Parker. Time of Halves—20 minutes.

The Technology second team easily defeated the Tufts second team by superior playing. The game was fairly fast and was marked by the good shooting and consistent blocking of Pettingill.

Score—Tech 2nd 25, Tufts 2nd 2. Goals by—Pettingill 4, Ritchie, Wentworth, Mather 3, Cahill, Stone 2.

From an informal canvas among the doubtful Boston wards, it appears that James J. Storrow will probably be our new mayor. His followers expect him to receive 25 per cent. of the Democratic vote, 65 per cent. of the unenrolled, and 75 per cent. of the Republican vote.

CALENDAR.

Friday, Jan. 7.

1:00—1913 Class Meeting in H. H.
8:00—Lecture on Wireless Telegraphy at Union.

Saturday, Jan. 8.

Basket-Ball. Tech vs. Lowell Textile at Tech Gym.
2:30—Hockey, Tech vs. Brae-Burn at Brae Burn.

(Continued on page 3.)

THE TECH.

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How many hours do you waste every week on little things of no account to yourself or anyone else? Many fellows would find, if they stopped to think of it, that they could save a good deal of time by exercising a little judgment and common-sense. Half of this time put on improvement in studies would save many a "flunk," and the other half devoted to working for some student activity would help to put all our affairs on a better footing. Think it over, and do it now!

WILL SOLICIT FUNDS

Tech Christian Association Appears For Student Aid

The Tech Christian Association started this year of its work on a firmer basis and with stronger backing by the faculty and the alumni than ever before in its history. An advisory committee was formed from members of the faculty, to aid by its advice the work of the Association, and the salary of the secretary was guaranteed by the faculty and the alumni who were interested.

Last year almost all interest was lost through lack of a secretary, but there is no reason for lack of interest this year, as the man secured for the place is not only a college man, but one whose age is that of the average student and who can thus understand the men with whom he deals better, perhaps, than an older man might.

With the salary of the secretary guaranteed, there remains to be provided for, the running expenses of the Association, such as printing, deputization work, deficit from Wednesday evening dinners, and the expenses of the various speakers.

It would seem no more than a square deal, since the faculty has shown its interest, that the student body turn to and see that its Association is not hampered by a lack of funds. Williams College, with 500 students, raised \$1,400 for its Association.

The Tech Association is, therefore, going to make a short and thorough campaign to raise money for running expenses. Each class will be solicited separately, beginning with the freshmen. It might be remarked in closing that the Boston Young Men's Christian Association contributed to the Tech Association just twice the amount raised here for the new building fund.

MILITARY DRILL NOTES

The War Department has recently passed an act by which new '03 Springfield army rifles will be furnished to replace the Krag rifles now used by the battalion. They will not however be supplied until next summer.

The change of drill hour from 3 P. M. to 2 P. M. on Mondays and Fridays went into effect this week. It is more satisfactory to the upper classmen who are acting as officers, for most of them have the whole afternoon, anyway, but the freshmen have to work pretty hard to change their clothes and get over to the Chemistry lecture on time.

The majority of the officers would be pleased to see the old order of a two-hour, once-a-week drill re-established. At the present time, not a single officer knows whether his next term's program will prevent him from drilling, as drill breaks into two afternoons. Moreover, now that the men have become used to drilling, they could easily stand two hours of it in one day, and thus save the inconvenience of dressing twice for drill.

The following promotions have been made in Co. D: Sergeant S. E. Rogers has been appointed 1st sergeant and the others moved up accordingly. Corporal M. W. Leonard has been appointed 5th sergeant and J. M. Isenberg made a corporal.

The date for holding the Military Ball has not yet been definitely set, many of the officers and non-coms favoring a postponement until the first of April.

CURRENT EVENTS

Ex-President Theodore Roosevelt and the others of his hunting party arrived at Butiab yesterday. From this point the party will make a hunting trip on the Lado Enclave in search of white rhinoceros.

The collapse of Leon Delagrang's aeroplane which caused his death at Bordeaux Tuesday, is said to have been due to too quick maneuvering in the puffy wind. Delagrang attempted to describe a sharp curve, the strain upon the wings broke the left wing, and the right wing immediately collapsed. Santos-Dumont had a very narrow escape at Saint Cyr in an accident similar to that which caused the death of Delagrang.

T. C. A. DINNER

At the fourth dinner of The Technology Christian Association those present heard a short report of the Rochester Convention of the Student Volunteer Movement. F. H. Busby '12 spoke of the object of the movement, the extension of the knowledge of Christ.

Dr. Denison of the Central Church spoke of the engineer in the foreign field. He said that in every new country there are two forces which rush in—the world and Christianity. He gave as instances Africa and Turkey, and sketched the victory of Christianity in these countries.

1913 CLASS RALLY.

The freshman class holds its third class meeting to-morrow in Huntington Hall at 1.00 P. M. The purpose of the meeting is to elect a foot-ball manager for next year, and to discuss the organization of a class track team. No previous class has ever had a class track team, but the freshmen are organizing this one with the hope of helping them to win Field Day next year.

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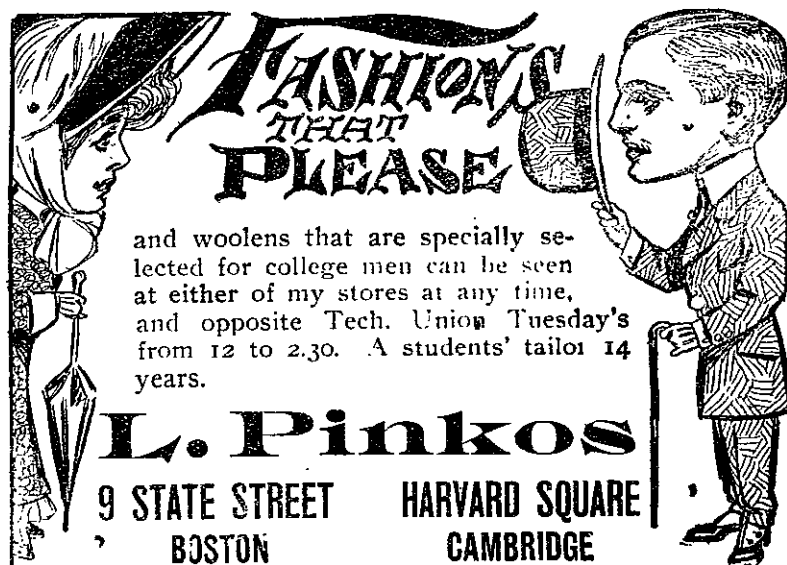
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LECTURE FOR AERO CLUB

Mr. Henry Morss will speak before the Aero Club next Saturday evening at 7.30 in the Union. The meeting is for all the men connected with the Club, associate as well as full members, and a good attendance is expected, as the talk will be of interest to all who are interested in aeronautics, but especially concerning Technology men.

Mr. Morss is the man who was appointed some time ago to go abroad to study courses in aviation. He will tell something of what is being done along these lines, and has some interesting pictures which he will show, some of them being views taken at a recent international balloon contest.

The report which Mr. Morss will make, will have a great deal to do with the possibility of instituting such a course here at Technology.

AM. ECONOMIC ASSOC.

During vacation week, Professor Dewey spoke at the Twenty-second Annual Meeting of the American Economic Association, on Observations in Economics. Prof. Dewey was president of the Association last year. The meeting at which he spoke was held in the Horace Mann Auditorium, Columbia University.

Frances Walker, who graduated from Technology in 1892, and son of former Pres. Walker, spoke on "The Causes of Trusts and Some Remedies for Them."

INTERCOLLEGIATE NEWS.

In a paper entitled "The Problem of the Assistant Professor," by Professor Guido Marx of Stanford University, delivered yesterday before the Association of American Universities, contains some interesting statements. Eighty per cent. of the assistant professors in American Universities must supplement their salaries by outside work in order to "make both ends meet" and, he says, they receive, on an average, just enough to suffice for an unmarried man, and seventy-four per cent. of them are married and have families to support.

SCHOLASTIC HONORS

(Continued from page 1.)

scientific schools. Lehigh, Columbia, Rensselaer, Polytechnic, Cornell, Stevens Institute, Case School of Applied Science, Armour Institute of Technology, and many state colleges and universities, particularly in the West, have chapters. There are alumni associations in Chicago, Pittsburg and Boston.

Sigma Xi was described in a previous number of the Tech. Its aim is purely scientific. It was started about twenty years ago and has about twenty-seven chapters. Cornell, Yale, Brown, Worcester, Polytech, Columbia, Leland Stanford, and the Universities of Missouri, California, Washington, Iowa, Indiana, Nebraska and Chicago have chapters, besides other colleges. In our own faculty, Professors Jackson, Warren, Bugbee and Wickenden are members. In Dean Burton's opinion Sigma Xi would meet with more favor here at the Institute.

NOTICE.

Glee Club Rehearsal Friday the 7th, at 4.15. Very important! All men come!

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GENERAL NOTICES.

FIRST YEAR.

Entrance Condition Examinations.

First-year students are expected to take at the end of the present term all entrance examinations in which they have not already clear records, with the following exceptions:

1. Students having conditions in entrance History and entrance Physics. No examination will be held in entrance History and entrance Physics at the semi-annual examination period.

2. Special students taking no work dependent on entrance subjects in which they have not clear records. Such students, if they desire to become regular, may take remaining examinations in June or September.

3. Students who are now making up entrance French and German by taking the elementary courses, although they are privileged to take these examinations.

4. Students entitled to excuse from particular entrance conditions on the basis of good term work. This applies to conditions in entrance Algebra, English, French, German, and Plane Geometry and students will be notified if excuse can be given.

For the Faculty Committee on Entrance Examinations,
WALTER HUMPHREYS,
 Registrar.

December 14, 1909.

MILITARY SCIENCE.

The Drill hour, on Mondays and Fridays, on and after January 3rd will be changed from three to two o'clock.

WALTER HUMPHREYS,
 Registrar.

Assignments are ready for Nos. 12, 14, and 20.

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LIBRARY.

Receipts, dated but not signed, for the following books have been left in the General Library:

July 1, 1909—Statham, H. H. Architecture for General Readers.
 November 16, 1909—Macaulay, T. B. History of England, Vol. 1.

The borrowers are requested to return these books.

1910.

1910 Portfolio Committee—Meeting today at 5.00 P. M., in Room A, Union.

1913.

First order of class-pipes given out Monday at Union. Second order for pipes received at Union from one till two daily.

WM. NEUSOME EICHLORN,
C. H. STRANG.

MUSICAL CLUBS.

Musical Clubs meet at Marceau's for picture at 1.30 P. M., Sat. Jan. 8th. Bring instruments.

Facilities for dressing at studio.

Rehearsal of Mandolin Club Thursday at 4.30 P. M. in the Union.

LOST.

A 3 B Amber stemmed pipe on Wednesday, Dec. 22. Finder will kindly return to Tech office and receive reward. Assignments now ready for No. 12, No. 14 and No. 20. (76, 77)

VACATION.

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